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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/781,276	02/18/2004	David J. Stroh	GP-303616	2049
75	90 06/03/2005		EXAMINER	
CHRISTOPHER DEVRIES			HOANG, JOHNNY H	
General Motors Corporation Legal Staff, Mail Code 482-C23-B21			ART UNIT	PAPER NUMBER
P.O. Box 300			3747	
Detroit, MI 48265-3000			DATE MAILED: 06/03/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

			$\rangle p$			
	Application No.	Applicant(s)				
	10/781,276	STROH, DAVID J.				
Office Action Summary	Examiner	Art Unit				
	Johnny H. Hoang	3747				
The MAILING DATE of this communication a Period for Reply	appears on the cover sheet v	vith the correspondence add	ress			
A SHORTENED STATUTORY PERIOD FOR REI THE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CFR after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory peri - Failure to reply within the set or extended period for reply will, by state Any reply received by the Office later than three months after the material patent term adjustment. See 37 CFR 1.704(b).	N. 1.136(a). In no event, however, may a reply within the statutory minimum of the fod will apply and will expire SIX (6) MC tute, cause the application to become A	reply be timely filed irty (30) days will be considered timely. DNTHS from the mailing date of this con ABANDONED (35 U.S.C. § 133).	nmunication.			
Status						
1) Responsive to communication(s) filed on 18	3 February 2004.					
2a) ☐ This action is FINAL . 2b) ☒ T	☐ This action is FINAL. 2b) ☐ This action is non-final.					
3) Since this application is in condition for allow	☐ Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed in accordance with the practice unde	er <i>Ex parte Quayle</i> , 1935 C.	D. 11, 453 O.G. 213.	·			
Disposition of Claims						
4) Claim(s) 1-33 is/are pending in the application	on.					
4a) Of the above claim(s) is/are without	Irawn from consideration.					
5) Claim(s) is/are allowed.						
6)⊠ Claim(s) <u>1-33</u> is/are rejected.						
7) Claim(s) is/are objected to.						
8) Claim(s) are subject to restriction and	d/or election requirement.					
Application Papers						
9) The specification is objected to by the Exam	iner.					
10)⊠ The drawing(s) filed on 18 February 2004 is	/are: a)⊠ accepted or b)□	objected to by the Examin	er.			
Applicant may not request that any objection to t	he drawing(s) be held in abeya	ance. See 37 CFR 1.85(a).				
Replacement drawing sheet(s) including the corr	ection is required if the drawin	g(s) is objected to. See 37 CFF	R 1.121(d).			
11) The oath or declaration is objected to by the	Examiner. Note the attached	ed Office Action or form PTC	D-152.			
Priority under 35 U.S.C. § 119						
12) Acknowledgment is made of a claim for fore	ign priority under 35 U.S.C.	§ 119(a)-(d) or (f).				
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority docume	ents have been received.					
2. Certified copies of the priority docume	ents have been received in	Application No				
3. Copies of the certified copies of the p	riority documents have bee	n received in this National S	Stage			
application from the International Bur	eau (PCT Rule 17.2(a)).					
* See the attached detailed Office action for a l	ist of the certified copies no	t received.				
Attachment(s)						
1) Notice of References Cited (PTO-892)		Summary (PTO-413) o(s)/Mail Date				
 2) Notice of Draftsperson's Patent Drawing Review (PTO-948) 3) Information Disclosure Statement(s) (PTO-1449 or PTO/SB/Paper No(s)/Mail Date 		Informal Patent Application (PTO-	152)			

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DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

(e) the invention was described in (1) an application for patent, published under section 122(b), by another filed in the United States before the invention by the applicant for patent or (2) a patent granted on an application for patent by another filed in the United States before the invention by the applicant for patent, except that an international application filed under the treaty defined in section 351(a) shall have the effects for purposes of this subsection of an application filed in the United States only if the international application designated the United States and was published under Article 21(2) of such treaty in the English language.

2. Claims 1, 2, 5, 7, 9, 10, 13, 15, 17, 18, 21, 23, 25-27, 29, 31, and 33 are rejected under 35 U.S.C. 102(e) as being anticipated by Matthews et al (US 6,895,941 B2).

Regarding claim 1, the reference of Matthews et al discloses a method and apparatus for a variable displacement internal combustion engine including the following subject matters:

a pedal sensor (42) that generates a pedal device position signal (col. 3, lines 42-49);

an adjusted pedal module (18) that determines an adjusted pedal based on said pedal device position signal and a vehicle speed (col. 3, lines 14-37); and

an engine torque request module that determines an engine torque request based on said adjusted pedal and an engine speed (col. 2, lines 16-33; col. 3, line 50 through col. 4, line 57; and Fig. 2).

Regarding claim 2, as discussed in claim 1 (col. 3, line 50 through col. 4, line 57).

Regarding claim 5, as discussed in claim 1 (col. 4, lines 24-35).

Regarding claims 9, as above discussions.

Regarding claims 10, 13, 15, and 17 are rejected as the same reasons as above claims.

Regarding claims 18, 21, 23, 25-27, 31, and 33, see the rejections of the control system of claims 1-9.

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Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

4. Claims 6, 8, 14, 16, 22, 24, 30, and 32 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matthews et al.

Regarding claims 6, 8, 14, 16, 22, 24, 30, and 32, with reference to above rejections Matthews et al disclose all that is claimed except the engine speed using a mathematical model.

Furthermore, the reference of Matthews et al discloses the pedal position sensor 42 signal is also communicated to the powertrain controller 18 for further processing. It would have been obvious to one of ordinary skill in the art at the time the invention was made to have utilized the internal combustion engine being operating with the mathematical model.

5. Claims 3, 4, 11, 12, 19, 20, and 28 are rejected under 35 U.S.C. 103(a) as being unpatentable over Matthews et al in view of Rayl et al (US 6,769,403 B2).

Regarding claims 3, 4, 11, 12, 19, 20, and 28, with reference to above rejections Matthews et al disclose all that is claimed except the output shaft speed signal is indicative of a rotational speed of an output shaft of a transmission.

Rayl et al disclose an engine control system which is included an output of the engine 16 is coupled by a torque converter clutch 58 and a transmission 60 to front and/or rear wheels (col. 3, lines 7-30). It would have been obvious to one of ordinary skill in the art at the time the invention was made to have modified the system with a transmission shaft speed as taught by Rayl et al, so as to provide improved method for the engine control system of Matthews et al.

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Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner

should be directed to Johnny H. Hoang whose telephone number is (571) 272-4843. The

examiner can normally be reached on Monday - Thursday (7:00Am-5: 30Pm).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's

supervisor, Henry Yuen can be reached on (571) 272-4856.

Information regarding the status of an application may be obtained from the Patent

Application Information Retrieval (PAIR) system. Status information for published applications

may be obtained from either Private PAIR or Public PAIR. Status information for unpublished

applications is available through Private PAIR only. For more information about the PAIR

system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private

PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

JHH May 27, 2005 Johnny H. Hoang Examiner Art Unit 3747

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Primary Examine